

MODEL: 2120-A (1-4) ZERO SPEED SWITCH PRODUCT SPECIFICATIONS

GENERAL:

- Designed for general industrial service.
- Standard housing constructed from cast aluminum. Also available in cast iron (CI) and explosion proof (EP) housing.
- Electrical entrance is dust and vapor proof conduit fitting.
- Approximate dimensions: 6" Long, 3 3/4" High, 4 1/8" Wide. Shaft diameter is 1/2".

ELECTRICAL:

- Switch is equipped with one set of totally enclosed S.P.D.T. snap action contacts rated as follows:
AC: 10 amps. 125 — 250 — 480 volts • DC: 1/2 amp. 125 volts | 1/4 amp. 250 volts

OPERATION:

- The 2120-A is adjustable in field to allow setting contact trip-point at desired control speed. Settings in footnote below.
- Contacts are actuated to make or break an electrical circuit as soon as input shaft speed, on acceleration, reaches set trip point in either direction of shaft rotation. Contacts will remain in the actuated position as long as the shaft speed is maintained at or in excess of the trip-point speed on acceleration. On slow drifting speed loss, the contacts will drop out at approximately 30 to 40 percent lower than the set trip point on acceleration. On rapid speed loss, contacts will drop out at approximately 0 speed, depending on rate of speed loss and trip-point setting on acceleration. A higher trip-point setting will effect a faster drop-out on speed loss.
- Adjustment for different speed settings is accomplished by turning a slotted thumb nut located inside the contacts chamber which positions a control magnet closer to an internal magnet for higher speed trip-point settings, and away from the internal magnet for lower speed settings. Adjustment nut is marked "S" for slower settings - turn to left, and "F" for faster settings - turn to right. DO NOT FORCE-TURN this nut beyond extremities.
- Unit indicates shaft rotation in either direction, but does not indicate which direction. Also indicates zero speed.
- Unit contains a proprietary silicone oil mix which lends stability to its operation from -40⁰ F to +250⁰ F or -40⁰ C to +482⁰ C.

MOUNTING AND DRIVING:

- This model is available in base or flange type mounting and can be mounted in any position for operation.
- Recommended method of driving is with our flexible K-Coupling. Driving torque required is approximately 4 Inch Ounces.
- Use caution regarding overhang load on shaft. Avoid end pressure and deflection on shaft.

SPECIFICATIONS:

Type	Mount	Description	Net Wt.
2120-A*	B	Standard housing -- base mount	4 lbs.
2120-A *	F	Standard housing -- flange mount	4 lbs.
CI-2120-A*	B	Cast iron housing -- base mount	8 lbs.
CI-2120-A*	F	Cast iron housing -- flange mount	8 lbs.
2120-A *	EP-1	Explosion proof housing	13 lbs.

* Range of trip-speed adjustment must be specified by adding a range number (1-4) to product type, i.e. 2120-A2.

1 = 25 to 70 R.P.M. 2 = 60 to 140 R.P.M. 3 = 125 to 450 R.P.M. 4 = 200 to 600 R.P.M.